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COMPUTER VISION FOR VISUAL EFFECTS

Computer Vision For Visual Effects

Susan Zwerman, Jeffrey A. Okun

Computer Vision For Visual Effects:

Computer Vision for Visual Effects Richard J. Radke, 2012-11-19 Modern blockbuster movies seamlessly introduce impossible characters and action into real world settings using digital visual effects. These effects are made possible by research from the field of computer vision the study of how to automatically understand images Computer Vision for Visual Effects will educate students engineers and researchers about the fundamental computer vision principles and state of the art algorithms used to create cutting edge visual effects for movies and television. The author describes classical computer vision algorithms used on a regular basis in Hollywood such as blue screen matting structure from motion optical flow and feature tracking and exciting recent developments that form the basis for future effects such as natural image matting multi image compositing image retargeting and view synthesis He also discusses the technologies behind motion capture and three dimensional data acquisition More than 200 original images demonstrating principles algorithms and results along with in depth interviews with Hollywood visual effects artists tie the mathematical concepts to real world filmmaking Computer <u>Vision for Visual Effects</u> Richard J. Radke, 2013 This book explores the fundamental computer vision principles and state of the art algorithms used to create cutting edge visual effects for movies and television. It describes classical computer vision algorithms and recent developments features more than 200 original images and contains in depth interviews with Hollywood visual effects artists that tie the mathematical concepts to real world filmmaking **Introduction to Visual Effects** Bruno Madeira, Luiz Velho, 2022-12-06 Introduction to Visual Effects A Computational Approach is the first single introduction to the computational and mathematical aspects of visual effects incorporating both computer vision and graphics The book also provides the readers with the source code to a library enabling them to follow the chapters directly and build up a complete visual effects platform The book covers the basic approaches to camera pose estimation global illumination and image based lighting and includes chapters on the virtual camera optimization and computer vision path tracing and many more Key features include Introduction to projective geometry image based lighting IBL global illumination solved by the Monte Carlo method Pathtracing an explanation of a set of optimization methods and the techniques used for calibrating one two and many cameras including how to use the RANSAC algorithm in order to make the process robust and providing code to be implemented using the Gnu Scientific Library C C code using the OpenCV library to be used in the process of tracking points on a movie an important step for the matchmove process and in the construction of modeling tools for visual effects A simple model of the Bidirectional Reflectance Distribution Function BRDF of surfaces and the differential rendering method allowing the reader to generate consistent shadows supported by a code that can be used in combination with a software like Luminance HDR Computer Vision Ron Kimmel, Reinhard Klette, Akihiro Sugimoto, 2011-03-14 The four volume set LNCS 6492 6495 constitutes the thoroughly refereed post proceedings of the 10th Asian Conference on Computer Vision ACCV 2009 held in Queenstown New Zealand in November 2010 All together the four volumes present 206

revised papers selected from a total of 739 Submissions All current issues in computer vision are addressed ranging from algorithms that attempt to automatically understand the content of images optical methods coupled with computational techniques that enhance and improve images and capturing and analyzing the world's geometry while preparing the higher level image and shape understanding Novel gemometry techniques statistical learning methods and modern algebraic procedures are dealt with as well Introduction to Visual Effects Bruno Madeira, Luiz Velho, 2022-12-06 Introduction to Visual Effects A Computational Approach is the first single introduction to the computational and mathematical aspects of visual effects incorporating both computer vision and graphics The book also provides the readers with the source code to a library enabling them to follow the chapters directly and build up a complete visual effects platform The book covers the basic approaches to camera pose estimation global illumination and image based lighting and includes chapters on the virtual camera optimization and computer vision path tracing and many more Key features include Introduction to projective geometry image based lighting IBL global illumination solved by the Monte Carlo method Pathtracing an explanation of a set of optimization methods and the techniques used for calibrating one two and many cameras including how to use the RANSAC algorithm in order to make the process robust and providing code to be implemented using the Gnu Scientific Library C C code using the OpenCV library to be used in the process of tracking points on a movie an important step for the matchmove process and in the construction of modeling tools for visual effects A simple model of the Bidirectional Reflectance Distribution Function BRDF of surfaces and the differential rendering method allowing the reader to generate consistent shadows supported by a code that can be used in combination with a software like Luminance HDR Pattern Recognition and Computer Vision Zhouchen Lin, Liang Wang, Jian Yang, Guangming Shi, Tieniu Tan, Nanning Zheng, Xilin Chen, Yanning Zhang, 2019-10-31 The three volume set LNCS 11857 11858 and 11859 constitutes the refereed proceedings of the Second Chinese Conference on Pattern Recognition and Computer Vision PRCV 2019 held in Xi an China in November 2019 The 165 revised full papers presented were carefully reviewed and selected from 412 submissions The papers have been organized in the following topical sections Part I Object Detection Tracking and Recognition Part II Image Video Processing and Analysis Part III Data Analysis and Optimization Machine Learning Fundamentals in Action A Step-by-Step Guide to Implementing Machine Learning Solutions Konstantin Titov, Master Machine Learning Fundamentals Whether you re an aspiring data scientist business professional or curious learner Machine Learning Fundamentals in Action is your essential guide to the world of machine learning Packed with practical examples and real world applications this book helps you navigate key concepts and techniques transforming industries today Unlock the Power of Machine Learning Discover every step from data preparation to building and deploying models with clear and actionable insights Who Is This Book For Aspiring Data Scientists Build a solid foundation in ML concepts Business Professionals Use data driven decisions to solve challenges Developers and Engineers Get hands on experience with model building techniques Curious Learners

Understand ML with easy step by step explanations What You ll Learn Core ML principles and real world applications Types of ML Supervised Unsupervised and Reinforcement Learning Advanced topics Neural networks deep learning and more How to deploy models and avoid common pitfalls Start your machine learning journey today The VES Handbook of Visual **Effects** Susan Zwerman, Jeffrey A. Okun, 2014-07-11 Wisdom from the best and the brightest in the industry this visual effects bible belongs on the shelf of anyone working in or aspiring to work in VFX The book covers techniques and solutions all VFX artists producers supervisors need to know from breaking down a script and initial bidding to digital character creation and compositing of both live action and CG elements In depth lessons on stereoscopic moviemaking color management and digital intermediates are included as well as chapters on interactive games and full animation authored by artists from EA and Dreamworks respectively From predproduction to acquisition to postproduction every aspect of the VFX production workflow is given prominent coverage VFX legends such as John Knoll Mike Fink and John Erland provide you with invaluable insight and lessons from the set equipping you with everything you need to know about the entire visual effects workflow Simply a must have book for anyone working in or wanting to work in the VFX industry The VES Handbook of Visual Effects Jeffrey Okun, VES, Susan Zwerman, VES, 2020-06-14 The award winning VES Handbook of Visual Effects remains the most complete guide to visual effects techniques and best practices available today This new edition has been updated to include the latest industry standard techniques technologies and workflows for the ever evolving fast paced world of visual effects The Visual Effects Society VES tasked the original authors to update their areas of expertise such as AR VR Moviemaking Color Management Cameras VFX Editorial Stereoscopic and the Digital Intermediate as well as provide detailed chapters on interactive games and full animation Additionally 56 contributors share their best methods tips tricks and shortcuts developed through decades of trial and error and real world hands on experience This third edition has been expanded to feature lessons on 2 5D 3D Compositing 3D Scanning Digital Cinematography Editorial Workflow in Animated and Visual Effects Features Gaming updates General Geometry Instancing Lens Mapping for VFX Native Stereo Real Time VFX and Camera Tracking Shot Element Pulls and Delivery to VFX Techvis VFX Elements and Stereo Virtual Production and VR AR Virtual Reality Augmented Reality A must have for anyone working in or aspiring to work in visual effects The VES Handbook of Visual Effects Third Edition covers essential techniques and solutions for all VFX artists producers and supervisors from pre production to digital character creation compositing of both live action and CG elements photorealistic techniques and much more With subjects and techniques clearly and definitively presented in beautiful four color this handbook is a vital <u>Inventive Communication and Computational Technologies</u> G. Ranganathan, George A. resource for any serious VFX artist Papakostas, Álvaro Rocha, 2023-10-03 This book gathers selected papers presented at the 7th International Conference on Inventive Communication and Computational Technologies conference ICICCT 2023 held on May 22 23 2023 at Gnanamani College of Technology Tamil Nadu India The book covers the topics such as Internet of things social networks mobile

communications big data analytics bio inspired computing and cloud computing The book is exclusively intended for academics and practitioners working to resolve practical issues in this area Computer Vision and Robotics Praveen Kumar Shukla, Krishna Pratap Singh, Ashish Kumar Tripathi, Andries Engelbrecht, 2023-04-27 This book is a collection of the high quality research articles in the field of computer vision and robotics which are presented in International Conference on Computer Vision and Robotics ICCVR 2022 organized by BBD University Lucknow India during 21 22 May 2022 The book discusses applications of computer vision and robotics in the fields like medical science defence and smart city planning This book presents recent works from researchers academicians industry and policy makers Machine Learning Algorithms and Techniques Krishna Bonagiri, 2024-06-21 Machine Learning Algorithms and Techniques the concepts popular algorithms and essential techniques of machine learning A comprehensive covering supervised unsupervised and reinforcement learning methods while exploring key algorithms like decision trees neural networks clustering and more Practical applications and examples bring each algorithm to life helping readers understand how these models are used to solve real world problems Designed for both beginners and experienced practitioners this book is an ideal guide for mastering the fundamentals and applications of machine learning Animation and Performance Capture Using Digitized Models Edilson de Aguiar, 2009-12-08 The realistic generation of virtual doubles of real world actors has been the focus of computer graphics research for many years However some problems still remain unsolved it is still time consuming to generate character animations using the traditional skeleton based pipeline passive performance capture of human actors wearing arbitrary everyday apparel is still challenging and until now there is only a limited amount of techniques for processing and modifying mesh animations in contrast to the huge amount of skeleton based techniques In this thesis we propose algorithmic solutions to each of these problems First two efficient mesh based alternatives to simplify the overall character animation process are proposed Although abandoning the concept of a kinematic skeleton both techniques can be directly integrated in the traditional pipeline generating animations with realistic body deformations. Thereafter three passive performance capture methods are presented which employ a deformable model as underlying scene representation. The techniques are able to jointly reconstruct spatio temporally coherent time varying geometry motion and textural surface appearance of subjects wearing loose and everyday apparel Moreover the acquired high quality reconstructions enable us to render realistic 3D Videos At the end two novel algorithms for processing mesh animations are described The first one enables the fully automatic conversion of a mesh animation into a skeletonbased animation and the second one automatically converts a mesh animation into an animation collage a new artistic style for rendering animations. The methods described in the thesis can be regarded as solutions to specific problems or important building blocks for a larger application As a whole they form a powerful system to accurately capture manipulate and realistically render realworld human performances exceeding the capabilities of many related capture techniques By this means we are able to correctly capture the motion the timevarying

details and the texture information of a real human performing and transform it into a fully rigged character animation that can be directly used by an animator or use it to realistically display the actor from arbitrary viewpoints Interactivity and Game Creation Matthias Wölfel, Johannes Bernhardt, Sonja Thiel, 2022-02-09 This book constitutes the refereed post conference proceedings of the 10th EAI International Conference on ArtsIT Interactivity and Game Creation ArtsIT 2021 which was held in December 2021 Due to COVID 19 pandemic the conference was held virtually The 31 revised full papers presented were carefully selected from 57 submissions. The papers are thematically arranged in the following sections Media Arts and Virtual Reality Games Fusions Collaboration Inclusion and Participation Artificial Intelligence in Art and Culture Approaches and Applications Artificial Intelligence and Industrial Applications Tawfik Masrour, Anass Cherrafi, Ibtissam El Hassani, 2020-09-01 This book gathers the refereed proceedings of the Artificial Intelligence and Industrial Applications A2IA 2020 the first installment of an annual international conference organized by the ENSAM Meknes at Moulay Ismail University Morocco The 30 papers presented here were carefully reviewed and selected from 141 submissions by an international scientific committee They address various aspects of artificial intelligence such as smart manufacturing smart maintenance smart supply chain management supervised learning unsupervised learning reinforcement learning graph based and semi supervised learning neural networks deep learning planning and optimization and other AI applications The book is intended for AI experts offering them a valuable overview of the status quo and a global outlook for the future with many new and innovative ideas and recent important developments in AI applications both of a foundational and practical nature It will also appeal to non experts who are curious about this timely and important subject Effects Society Handbook Susan Zwerman, Jeffrey A. Okun, 2012-08-06 Wisdom from the best and the brightest in the industry this visual effects bible belongs on the shelf of anyone working in or aspiring to work in VFX The book covers techniques and solutions all VFX artists producers supervisors need to know from breaking down a script and initial bidding to digital character creation and compositing of both live action and CG elements In depth lessons on stereoscopic moviemaking color management and digital intermediates are included as well as chapters on interactive games and full animation authored by artists from EA and Dreamworks respectively From predproduction to acquisition to postproduction every aspect of the VFX production workflow is given prominent coverage VFX legends such as John Knoll Mike Fink and John Erland provide you with invaluable insight and lessons from the set equipping you with everything you need to know about the entire visual effects workflow Simply a must have book for anyone working in or wanting to work in the VFX industry Computer Vision Jinfeng Yang, Qinghua Hu, Ming-Ming Cheng, Liang Wang, Qingshan Liu, Xiang Bai, Deyu Meng, 2017-12-07 This three volume set CCIS 771 772 773 constitutes the refereed proceedings of the CCF Chinese Conference on Computer Vision CCCV 2017 held in Tianjin China in October 2017 The total of 174 revised full papers presented in three volumes were carefully reviewed and selected from 465 submissions. The papers are organized in the following topical sections biological

vision inspired visual method biomedical image analysis computer vision applications deep neural network face and posture analysis image and video retrieval image color and texture image composition image quality assessment and analysis image restoration image segmentation and classification image based modeling object detection and classification object identification photography and video robot vision shape representation and matching statistical methods and learning video analysis and event recognition visual salient detection Combating Bad Weather Part II Sudipta Mukhopadhyay, Abhishek Kumar Tripathi, 2022-05-31 Every year lives and properties are lost in road accidents About one fourth of these accidents are due to low vision in foggy weather At present there is no algorithm that is specifically designed for the removal of fog from videos Application of a single image fog removal algorithm over each video frame is a time consuming and costly affair It is demonstrated that with the intelligent use of temporal redundancy fog removal algorithms designed for a single image can be extended to the real time video application Results confirm that the presented framework used for the extension of the fog removal algorithms for images to videos can reduce the complexity to a great extent with no loss of perceptual quality This paves the way for the real life application of the video fog removal algorithm In order to remove fog an efficient fog removal algorithm using anisotropic diffusion is developed The presented fog removal algorithm uses new dark channel assumption and anisotropic diffusion for the initialization and refinement of the airlight map respectively. Use of anisotropic diffusion helps to estimate the better airlight map estimation The said fog removal algorithm requires a single image captured by uncalibrated camera system The anisotropic diffusion based fog removal algorithm can be applied in both RGB and HSI color space This book shows that the use of HSI color space reduces the complexity further The said fog removal algorithm requires pre and post processing steps for the better restoration of the foggy image These pre and post processing steps have either data driven or constant parameters that avoid the user intervention Presented fog removal algorithm is independent of the intensity of the fog thus even in the case of the heavy fog presented algorithm performs well Qualitative and quantitative results confirm that the presented fog removal algorithm outperformed previous algorithms in terms of perceptual quality color fidelity and execution time The work presented in this book can find wide application in entertainment industries transportation tracking and consumer electronics Artificial Intelligence and Knowledge Processing: Methods and Applications Hemachandran K., 2023-11-24 Artificial Intelligence and Knowledge Processing Methods and Applications demonstrates the transformative power of Artificial Intelligence AI in our lives The book is a collection of 14 edited reviews that cover a wide range of topics showcasing the application of AI and machine learning to create knowledge and facilitate different processes The book starts by illuminating how AI is employed in robotics IoT marketing and operations It showcases how AI extracts insights from big data optimizes museum management and empowers automated garden path planning using reinforcement learning The book also explores how AI can be used to predict heart disease using artificial neural networks Furthermore the book underscores how AI predicts crop suitability

manages crop systems and can even help to detect violence in using computer vision Chapters highlight specific techniques or systems such as recommendation systems and reinforcement learning where appropriate Key Features Showcases a wide range of AI applications Bridges theory and practice with real word insights Uses accessible language to explain complex AI concepts Includes references for advanced readers This book is intended as a guide for a broad range of readers who want to learn about AI applications and the profound influence it has on our lives Data Science and Visual Computing Rae Earnshaw, John Dill, David Kasik, 2019-08-30 Data science addresses the need to extract knowledge and information from data volumes often from real time sources in a wide variety of disciplines such as astronomy bioinformatics engineering science medicine social science business and the humanities The range and volume of data sources has increased enormously over time particularly those generating real time data This has posed additional challenges for data management and data analysis of the data and effective representation and display A wide range of application areas are able to benefit from the latest visual tools and facilities Rapid analysis is needed in areas where immediate decisions need to be made Such areas include weather forecasting the stock exchange and security threats In areas where the volume of data being produced far exceeds the current capacity to analyze all of it attention is being focussed how best to address these challenges Optimum ways of addressing large data sets across a variety of disciplines have led to the formation of national and institutional Data Science Institutes and Centers Being driven by national priority they are able to attract support for research and development within their organizations and institutions to bring together interdisciplinary expertise to address a wide variety of problems Visual computing is a set of tools and methodologies that utilize 2D and 3D images to extract information from data Such methods include data analysis simulation and interactive exploration These are analyzed and discussed

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